RATENT AND TRADEMARK OFFICE IN THE UNITED STATE

Application of:

Gupta et al.

Application No.:

09/779.597

Filed: February 9, 2001

For:

Process for Making Triazine UV Absorbers Using Lewis Acids and

Reaction Promoters

Art Unit:

1624

Examiner:

V. Balasubramanian

Docket No.: 98064-02

Date: July 11, 2003

DECLARATION UNDER 37 C.F.R. Section 1.131(a)

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We, Ram B. Gupta, Dennis J. Jakiela, Sampath Venimadhavan, Russell C. Cappadona and Venkatrao K. Pai, being duly sworn depose and say:

That we are the inventors for the above-identified patent application;

That we conceived and reduced to practice in the United States the invention claimed in the above-identified patent application prior to March 2, 1998, the priority filing date of the cited U.S. Patent No. 6.242,598 B1 to Stevenson et al.

Attached Exhibit A is a copy of notebook records relating to the reduction to practice of our invention, wherein an aryl substituted 1,3,5-triazine forming reaction facilitator comprising a Lewis Acid (AlCl₃), a reaction promoter (conc. HCl-protic acid) and a solvent (chlorobenzene) is used to prepare aryl substituted 1,3,5-triazine compounds CDMPT (2-chloro-4,6-bis(2,4-dimethylphenyl)-1,3,5-triazine) and P-1062 (2-(2,4-dihydroxyphenyl)-4,6-bis(2,4-dimethylphenyl)-1,3,5-triazine).

That Exhibit A, which relates to the aforementioned actual reduction to practice, corresponds to the invention broadly disclosed and claimed in the above-identified patent application.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

5. Venimadi (Sampath Venimadhavan)

/s/

VCASEFILE\98064-02\Rule 1.131 Aff

ROBLÈM NO.	• CONTINUED FROM:
JRPOSE OF THE PROCEDURE	Reaction of cyannic chloride with mexicane
containing 3.00g.	
Cl	
Jan 1	Cl-d; Concilled
N N N N N N N N N N N N N N N N N N N	Alch (3-2)
u u	
	Fee Antived Mrs.
cyanusic Chloride	184 3.68 g. 20 mm
m- xylene (d:0.868)	106 4.6 mL 38 mm
Mcz '	134 Bogm 60 mm
Uloobernene	50mL
Conc. Hel	O.A.ml
9 2 2 20 11	ark aguithed with a reglex andense, an argon inter,
on a s-neer to p	The state of the s
a margnetic stiming	bac and year stopped was placed cyanuic
chindle - or it was	as added chlowhensene and the contents cooled in an
ice Lub Juit	was then added Mch Followed by after 5 min, conc.
Isel Aprix la min	m- xylene was added sue ven mix turned
yellow and soon	ned. It was then stirled at it. The solution
In hecome dance	red A sample was interdranon & analysed of your.
by HPLC. The	analysis showed 97% cc convection to maily
(OMPT & Amendal from	no in 96:4 ratio. The reaction mia was
Mind for oddi	trond you I a sample again analyzed by HPLC
1 - d - 951	Conversion of CC to COMPT & trinciply formed in
a succession of the	
93 (Yaha.	the reaction madine was left overnight
strong at It	
A frial	saufle was analyzed after to be at
room tomp by	HPLC It showed 99.5/ Conversion of CC
to only two p	roducts viz. COMPT & trixyly formed in 96.4
ratio suis	is the frest ratio we have observed thus
Sac.	
70	
	SIGNED PS SOME - DATE:
·	DISCLOSED TO AND UNDERSTOOD BY ME CAMP DATE:
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RPOSE OF THE PROCEDURE Further Reaction with Rosorcintal	
	-
To the stiming reaction mixture at room temp-	
was added 2.42 gm (22 min) of resorcinol st was	
then heated to 85°C and held at this temp- for	
1.5 hr. The healing was discontinued at this strage	
and the reaction mature left stiring at room tamp-	
overingst.	·
	 ;
A sample was withdrawon and analyzed by HPIC.	:
It showed 92-7% 8-1062 4 99% Topachyl and	: :
2-25 / Unreacted COMPT Ager complete conversion of	
COMPT The ratio can of P-10th to bisself can be	:
ashij as 95.7%: 4.3%	
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